



494211



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT**

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
MI	981190317

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) MICHIGAN CONSOLIDATED GAS CO. STATION B		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER East Jefferson & Meldrum	
03 CITY DETROIT	04 STATE MI	05 ZIP CODE 48207	06 COUNTY WAYNE
07 COUNTY CODE 163		08 CONG DIST 13	
09 COORDINATES LATITUDE 42 20 25.		LONGITUDE 83 00 25.	

Detroit Quad 7.5 minute series**10 DIRECTIONS TO SITE (Starting from nearest public road)**

From I-375/I-75 Area near the Detroit/Windsor tunnel, take Jefferson Ave. east approximately 1 mile. Sight is on the south side just past Meldrum St.

III. RESPONSIBLE PARTIES

01 OWNER (if known) Michigan Consolidated Gas Co.		02 STREET (Business, mailing, residential)	
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
07 OPERATOR (if known and different from owner) Michigan Consolidated Gas Co.		08 STREET (Business, mailing, residential)	
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN			

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103) DATE RECEIVED: _____ MONTH DAY YEAR ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input type="checkbox"/> YES DATE 7/84 MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input checked="" type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)	
CONTRACTOR NAME(S): EDI Investigation			

02 SITE STATUS (Check one)

☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1871 | **1954**
BEGINNING YEAR ENDING YEAR

☐ UNKNOWN**04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED**

Aromatics and PNA as well as heavy metals associated with coal gasification are all present.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Population is not threatened by contaminated drinking water or direct contact, but hazard to environment is great as soils and groundwaters are contaminated.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)			
<input type="checkbox"/> A. HIGH (Inspection required immediately)	<input checked="" type="checkbox"/> B. MEDIUM (Inspection required)	<input type="checkbox"/> C. LOW (Inspection on time available basis)	<input type="checkbox"/> D. NONE (No further action needed, complete current observation form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT Gianie Loselle		02 OF (Agency/Organization) MDNR - Northville office		03 TELEPHONE NUMBER (313) 459-0770	
04 PERSON RESPONSIBLE FOR ASSESSMENT Barry Christen / Steve Cunningham		05 AGENCY MDNR	06 ORGANIZATION SITE ASSESSMENT UNIT	07 TELEPHONE NUMBER (517) 373-4900	08 DATE 5/6/86 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
HID 98190317

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) A. SOLID B. POWDER, FINES C. SLUDGE D. OTHER (Specify) E. SLURRY F. LIQUID G. GAS X	02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) TONS CUBIC YARDS NO. OF DRUMS	03 WASTE CHARACTERISTICS (Check all that apply) X A TOXIC B. CORROSIVE C. RADIOACTIVE D. PERSISTENT X E. SOLUBLE F. INFECTIOUS G. FLAMMABLE H. IGNITABLE X I. HIGHLY VOLATILE J. EXPLOSIVE K. REACTIVE L. INCOMPATIBLE M. NOT APPLICABLE
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III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
<u>SOL</u>	SOLVENTS			BY-PRODUCTS OF HEATING COAL & CRUDE
PSO	PESTICIDES			FORMED IN COAL-GASIFICATION
OCC	OTHER ORGANIC CHEMICALS			PROCESS
<u>IOC</u>	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
<u>MES</u>	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Benzene	00071-43-2	monitor well #2	23 ppm	
SOL	Xylene	01330-20-7	monitor well #2	3.9 ppm	
SOL	Toluene	108-88-3	monitor well #2	2.8 ppm	
SOL	Ethyl Benzene	100-41-4	monitor well #2	6.7 ppm	
MES	Cyanide	7440-91-8	Surface Sample #9	52 ppm	
MES	Zinc	7440-66-6	Surface Sample #4	980 ppm	
SOL	Phenol	108-95-2	monitor well #2	.92 ppm	
SOL	highthylene	91-20-3	"	810 ppm	
SOL	phenanthrene	85-01-8	"	280 ppm	
SOL	benzopyrene	00050-32-8	"	820 ppm	
SOL	benzo fluoranthene	205-99-2	"	500 ppm	
SOL	benzo anthracene	56-55-3	"	280 ppm	
SOL	pyrene	129-00-0	"	170 ppm	
MES	Chromium	7440-47-3	monitor well #3	.25 ppm	
MES	mercury	7439-97-6	monitor well #3	.0042 ppm	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., 8220 MSL, 8220 MSL, 8220 MSL, 8220 MSL)

"INITIAL SITE INVESTIGATION" prepared for Michcon by EDI Engineering & Science



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MID 98190317

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

In this highly urbanized area it is unlikely that any flora would be threatened.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Aquatic fauna in the Detroit River may bioaccumulate these metals. Data on organisms is scarce.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Heavy metals including zinc and chromium are bioaccumulated and therefore may contaminate the food chain.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Surface runoff/leakage/underground storage tanks)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

N/A

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Groundwater movements have transported some contamination off site towards the Detroit River.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

N/A

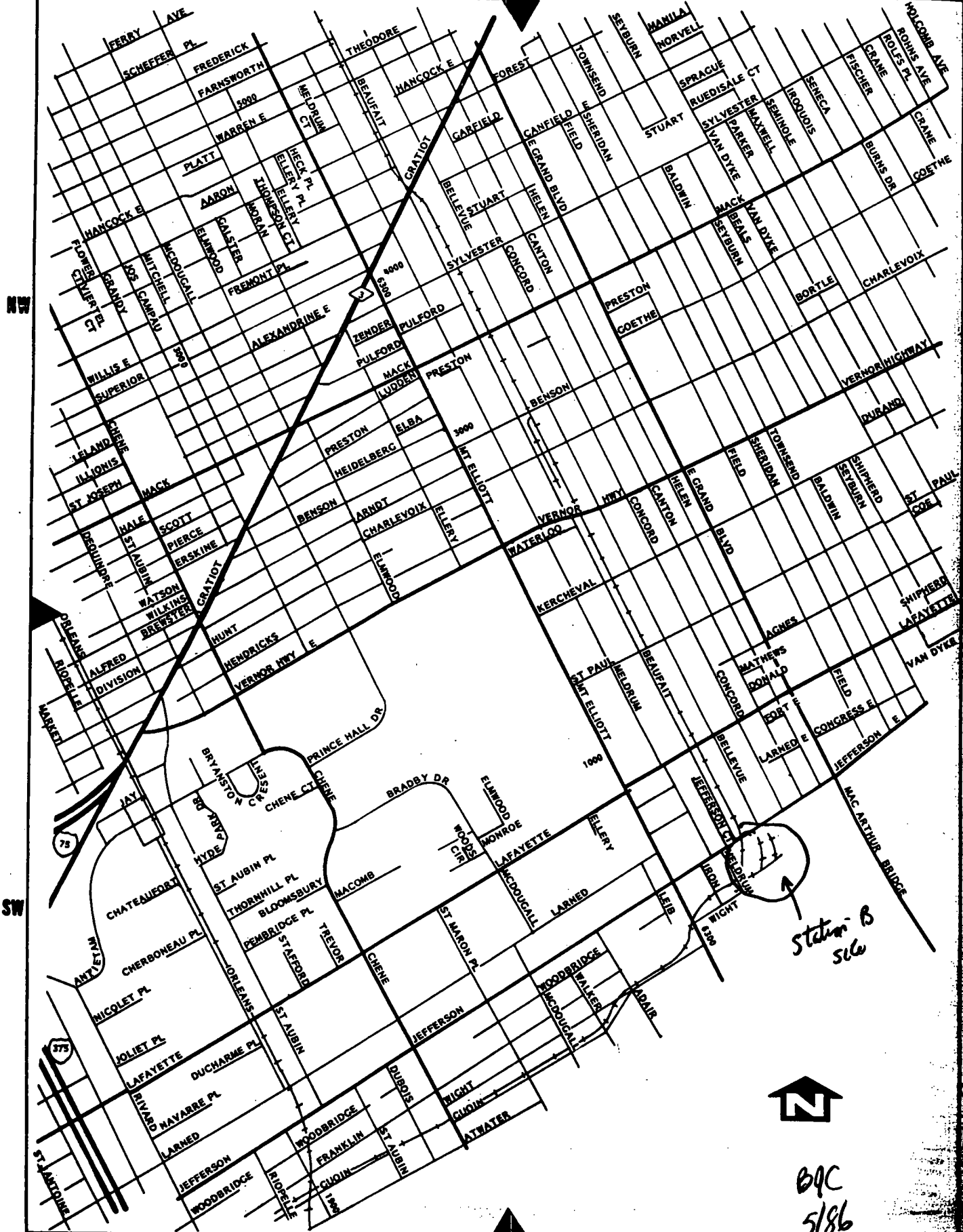
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 222,900

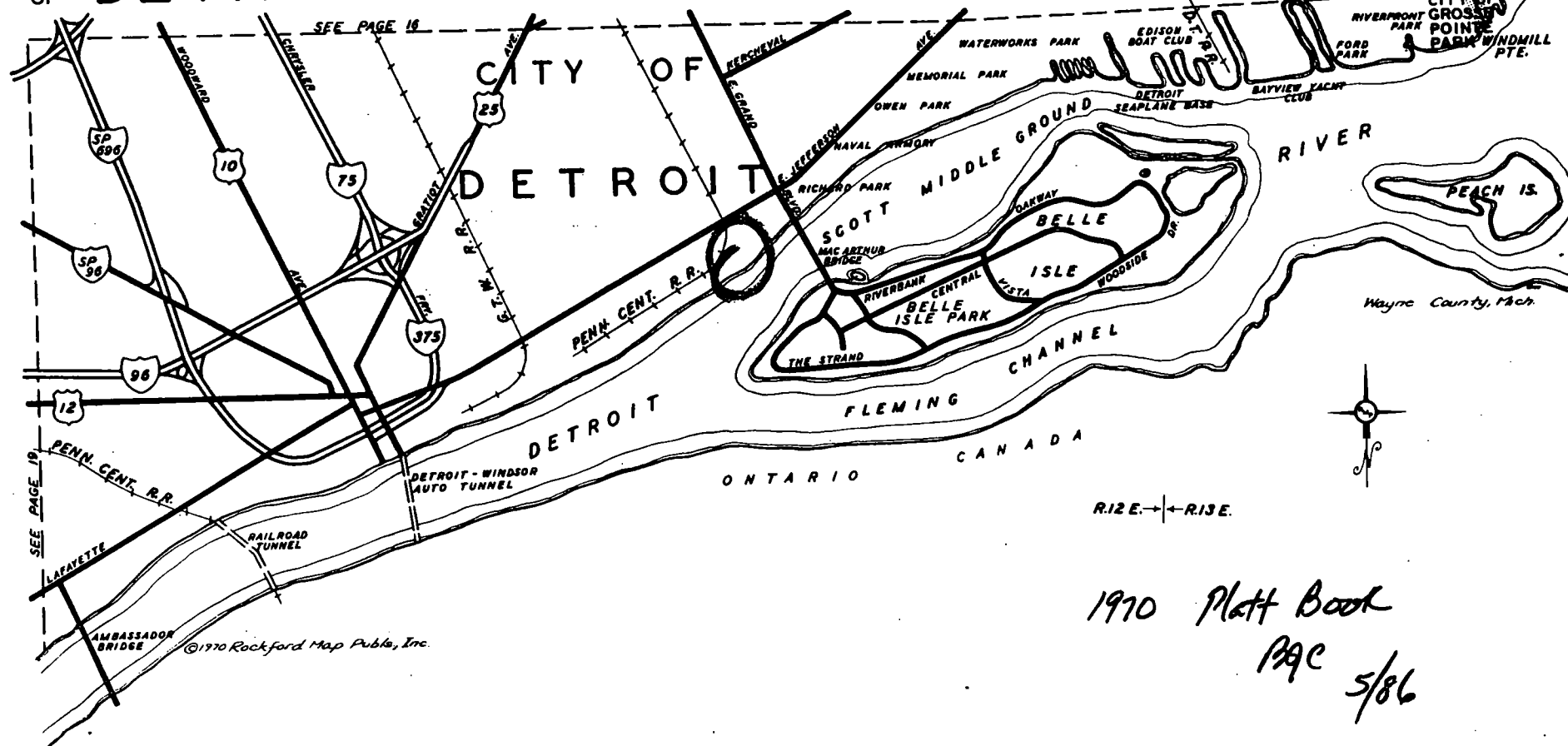
IV. COMMENTS

V. SOURCES OF INFORMATION (Cite sources: references, e.g., state laws, agency reports, records)

"INITIAL SITE INVESTIGATION" prepared for Michigan by EDI Engineering - Service



PART OF DETROIT & ENVIRONS T.2 S.-R.12-13 E.



Mich. Con Station B

location :

latitude ~~42° 15'~~ + 5' 25" = 42° 20' 25"

longitude 83° 00' + 25" = 83° 00' 25"

Bgc
5/6/86
1

Site Name Hutch. Co. Coal Gasification
County Wayne

CALL LOG

- 1) Verify site location and size.
- 2) Verify # and size of each containment structure.
- 3) Is there existing exposure of people documented?
- 4) Is the site fenced? Is it secure?
- 5) If sampling was done, how were samples collected? i.e. random, selective, surface grab, composite etc.
- 6) Has the fire marshal considered the site a fire hazard?
- 7) What type of companies used the site? (Origin of chemicals)

<u>DATE</u>	<u>AGENCY</u>	<u>PHONE NUMBER</u>	<u>PERSON CONTACTED</u>
5/9/86	MDNR - Northville	313 459 6770	Ginnee Leselle

Ginnee says a Department of NR Task force has been formed to discuss a generic policy for these gasification sites. Also guidelines for site evaluations will be discussed.

Berry Christman

Prepared by: 5/86

SITE DESCRIPTION/EXECUTIVE SUMMARY

Site Name and Location

Michigan Consolidated Gas Co. Station B County: Wayne
East Jefferson Ave. Michigan Code Number: 82-02S-12E-??
Detroit, MI 48207 DNR District: Detroit
EPA ID Number: MID981190317

SAS Score/Screen No.:

All information contained within this site description has been taken from an EDI Engineering and Science Report, Initial Site Investigation, (1985). All sampling was conducted in fall of 1984 by EDI.

The Michigan Consolidated Gas Co. (Michcon Station B) site is a 17 acre site on which coal gasification - the production of methane from heating coal - had occurred since 1871. Mutual Gas and Light Co. and Detroit City Gas Co. operated at this site before Michcon. The plant was dismantled and closed down in 1954. Currently the site is almost entirely covered with asphalt except the railroad right-of-way.

Ambient air samples revealed non-detectable levels of benzene, toluene, and xylene at all locations. Subsurface air sampling detected benzene, toluene, and xylene.

Groundwater sampling has revealed 23 mg/l of benzene, 6.7 mg/l ethylbenzene, 2.8 mg/l of toluene, 3.9 mg/l of xylene and elevated levels of many poly-nuclear aromatics (PNA's). These levels were found in MW No. 2. MW No. 3 also showed contamination by various PNA's, benzene, toluene, and xylene. Soil sampling shows elevated levels of these previously mentioned chemicals, especially near facilities of the old plant. Cyanide at 52 ppm was detected in one subsurface soil sample. Soil contamination appears to exist only in the subsurface layers below 2.5 feet.

Groundwater flow is in a southerly direction toward the river. Lacustrine clay deposits persist down to 70 feet, where sand follows to 150 feet. These clays are thought to be represent an aquiclude and are thought to direct groundwater discharge to the river.

Recommendations to EPA

A MDNR task force has been formed to establish general guidelines for the study and evaluation of these coal-gasification sites. It seems to be the concerted opinion of the task force members that the EDI reports are deficient. Due to the fact that the responsible parties involved are taking steps toward a resolution of these problems, it is given a medium priority.

Date of Previous Summary:
Previous Author:

Current Date: 5/15/86
Author: Barry Christian

Site Assessment Unit
Groundwater Quality Division
Michigan Dept. of Natural Resources